



VORNADO®

Owner's Guide

READ AND KEEP THESE IMPORTANT INSTRUCTIONS

Guide de L'utilisateur

LIRE ET CONSERVER CES INSTRUCTIONS IMPORTANTES

Guia del propietario

LEA Y TENGA EN CUENTA ESTAS INSTRUCCIONES IMPORTANTES



TouchStone™
VORTEX HEAT® 600

IMPORTANT INSTRUCTIONS

Vornado® TouchStone™ Vortex Heat® 600 **Read all instructions before using this heater.**

Please visually inspect all internal and external components before connecting to electric current. If any damage is found, **DO NOT USE THIS UNIT** and contact Vornado Air LLC at 1-800-234-0604.

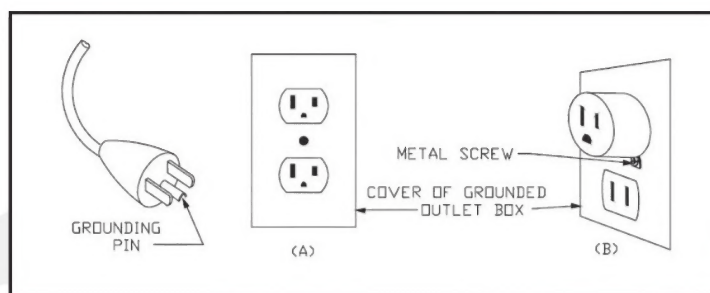
When using electrical appliances, basic precautions should always be followed to reduce the risk of fire, electric shock or injury to persons, including the following:

- ▶ **DO NOT** place heater on furniture. It could fall, dislodging or breaking parts in the heater. Operate this heater only in its upright position.
- ▶ **DO NOT** leave an operating heater unattended and always unplug heater when not in use. To disconnect heater, turn unit off by pressing the power button, then remove plug from outlet.
- ▶ Always plug heaters directly into a wall outlet/receptacle. Never use with an extension cord or relocatable power tap (outlet/power strip).
- ▶ **DO NOT** use in damp or wet areas. Parts in the heater may be damaged by moisture.
- ▶ **DO NOT** plug any other electrical device into the same outlet as your heater. This could result in overheating.
- ▶ **DO NOT** operate this product with any electronic speed-control device on the same circuit.
- ▶ **DO NOT** insert or allow foreign objects to enter any ventilation or exhaust openings as this may cause an electric shock, fire or damage the heater.
- ▶ **DO NOT** use heater to dry human or animal hair/fur or articles of clothing.
- ▶ This heater is **NOT** intended for use in bathrooms, laundry areas and similar indoor locations. Never locate heater where it may fall into a bathtub or other water container.
- ▶ **DO** use this heater only as described in this owner's guide. Any other use not recommended by Vornado may cause fire, electric shock or injury to persons.
- ▶ **DO NOT** run cord under carpeting. **DO NOT** cover cord with throw rugs, runners or similar covering. Arrange cord away from traffic area and where it will not be tripped over.
- ▶ This heater is hot when in use. To avoid burns, do not let bare skin touch hot surfaces. If provided, use handles when moving this heater. Keep combustible materials, such as furniture, pillows, bedding, papers, clothes and curtains at least three feet from the heater. To prevent a possible fire, **DO NOT** block the heater's air intake or exhaust in any manner. **DO NOT** use on soft surfaces, like a bed, where openings may become blocked.
- ▶ **DO** keep flammable materials away from the heater. A heater has hot and arcing or sparking parts inside. **DO NOT** use the heater in areas where gasoline, paint or flammable liquids are used or stored.
- ▶ This heater is equipped with a thermal safety shut-off system, designed to turn off the heater when an internal overheating condition is detected (see Resetting the Unit section under Safety Features for instruction on how to reset Heater).

SAVE THESE INSTRUCTIONS

IMPORTANT INSTRUCTIONS (continued)

- ▶ This product is equipped with a 3-prong, grounding pin plug as a safety feature. To reduce the risk of electric shock, this plug is intended to connect to a grounded outlet only. This plug will fit into a grounded outlet only one way. **DO NOT** alter the plug. **DO NOT** attempt to defeat this safety purpose of the grounding plug. This product must be grounded. If the product malfunctions, grounding provides a path of least resistance for the electric current to reduce the risk of electric shock. The 3-prong plug must be inserted into a grounded outlet that has been properly installed in accordance with all electric codes and ordinances. If you are in doubt as to whether or not an outlet is properly grounded, contact a qualified electrician.
- ▶ **DO** check periodically for a secure plug/outlet fit. If the plug does not fit snugly into the outlet or if the plug becomes very hot, the outlet may need to be replaced. Check with a qualified electrician to replace the outlet.
- ▶ Always unplug the heater when not in use by pulling the plug straight out from the outlet. Inspect the heater's cord periodically. **DO NOT** use a heater with a damaged cord or plug or after the heater malfunctions, has been dropped or damaged in any manner. Return heater to Vornado for examination, electric or mechanical adjustment or repair.
- ▶ This heater operates with a RF (Radio Frequency) remote control. Interference between this remote and other remote-control-operated electrical appliance in your home is possible.
- ▶ This heater is for use on 120 volts. The cord has a plug as shown at A in the illustration below. If a grounding receptacle is not available, an adapter as shown at B is available for connecting three-blade grounding-type plugs to two-slot receptacles. The green grounding plug extending from the adapter must be connected to a permanent ground such as a properly grounded outlet box shown at B. The adapter should not be used if a three-slot grounded receptacle is available.
- ▶ **HEATERS SHOULD BE KEPT AWAY FROM CHILDREN AND NOT BE PLACED IN A CHILD'S ROOM WITHOUT SUPERVISION.**
- ▶ **FOR RESIDENTIAL USE, INDOOR ONLY. NOT FOR USE IN ANIMAL PENS OR OUTDOOR BUILDINGS.**



SAVE THESE INSTRUCTIONS

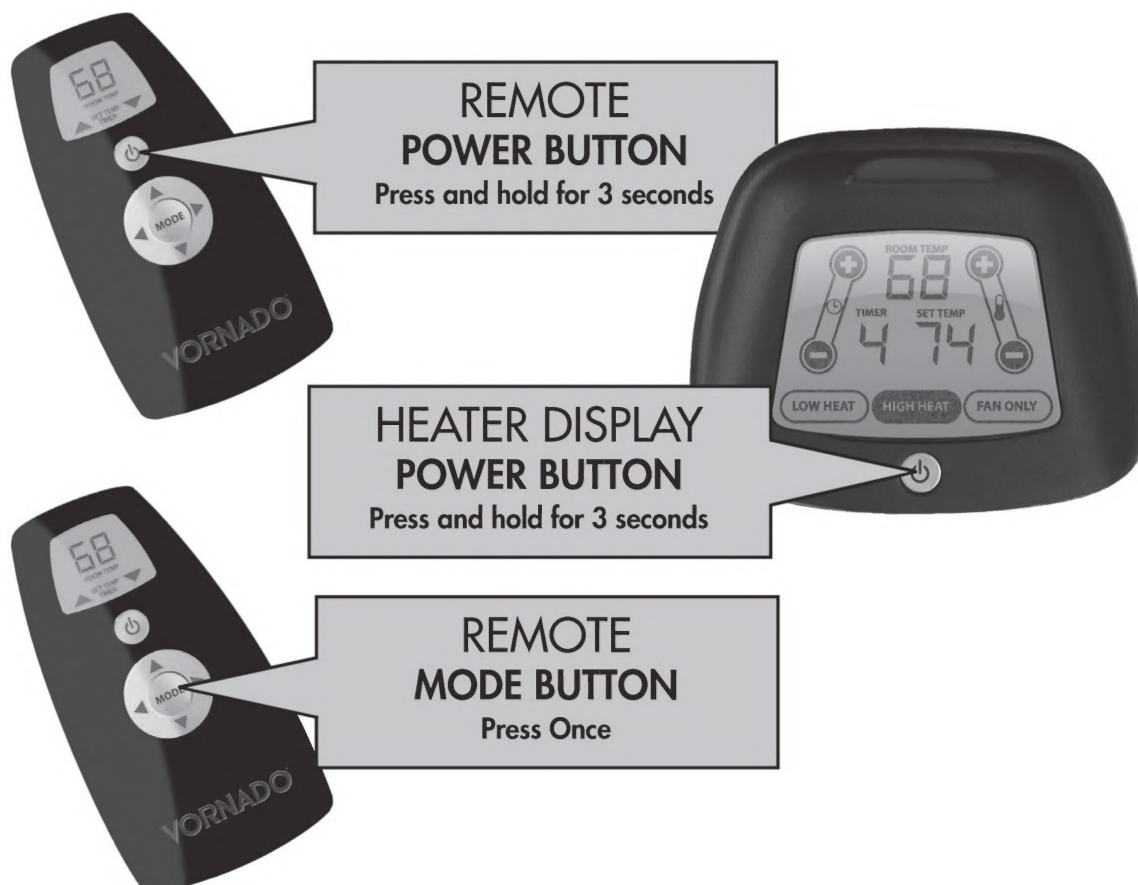
Remote Control Quick Start Guide

- Step 1** Make sure the battery saver switch on the back of the Remote is in the **ON** position.
- Step 2** Remove static cling decal from the Heater Touch Screen Display.
- Step 3** Plug Heater into approved wall outlet. DO NOT turn Heater on.
- Step 4** Place 2 AA batteries (included) into Remote. Aim Remote at Heater. Recommended to be within 3 feet for programming the Heater.
- Step 5** Press and hold the Remote **POWER** button for approximately 3 seconds, until display flashes one time. The Remote now has generated a new communication signal.
- Step 6** Press and Hold the Heater **POWER** button for approximately 3 seconds, until the display begins to flash. The Heater is now ready to receive the new communication signal.
- Step 7** Press the Remote **Mode** button one time. The Heater display will stop flashing and glow solid. The Remote and Heater are now linked.
- Step 8** Set the Heater to desired heat setting, temperature setting and timer duration.

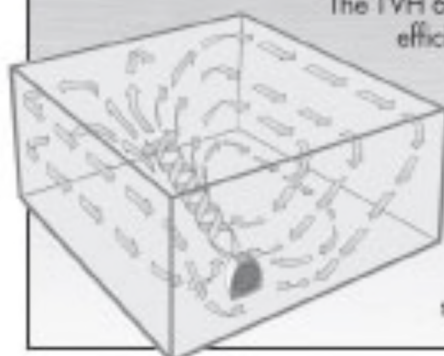
The Remote does not need to be programmed for the Heater to function properly using only the main touch-screen display.

Note: You should only need to set up the connection one time upon first use of your Heater. If for some reason the Remote loses its connection – repeat the Remote Control Quick Start Instructions.

The Remote can be turned **OFF** to save battery life or to stop the remote from sending information to the base unit. Simply move the battery saver switch on the back of the Remote to the **OFF** position.



About your new Vornado® TouchStone™ Vortex Heat® 600 (TVH 600)



The TVH 600 features Vornado's signature Vortex Technology to provide efficient circulation of heat throughout the entire room. The TVH 600 works by creating a tornado-like beam of air that projects across the room until reaching a barrier, returning around the perimeter of the room to be recirculated. This results in an even temperature throughout the room and surrounds you in a "blanket of warmth." This is unlike most space heaters, that heat the space directly in front of the unit and provide limited to no circulation - allowing the heat to simply rise to the ceiling.

Safety Features

The TVH 600 incorporates multiple safety devices and systems. These features include:

Durable Construction

Designed of metal and plastic to be cool to the touch.

Tight Grill Spirals

Resists curious fingers.

Automatic Tip-Over Protection

Heater automatically shuts off if it is tipped over.

Automatic Safety Shut-Off System

The TVH 600 has a multi-level safety shut-off system designed to prevent overheating. Overheating may occur if the inlet or outlet is blocked, a foreign object prevents the blade from turning, or the appliance tips over. If this happens, the safety shut-off system will cut power to the heat element and you will need to manually reset the unit. This shut-off system also has a back-up one-shot fuse for added protection. (See Resetting the Unit below)

Ideal Exit Air Temperature

Approximately 120° F; warm enough to heat an entire room and is the temperature of the exit air in most central forced air heating systems.

Wide Base

To maximize stability

Grounded Heavy-Duty Power Cord

3 prongs make for a more secure wall connection.

Illuminated Indicator Light

A visible reminder that the heater is on.

Non-Glowing, Thermostatically Controlled Heating Element

Even on HIGH, the heat element does not glow. Non-glowing heating elements are safer and longer lasting.

Resetting the Unit

1. Unplug the unit.
 2. Remove any obstructions.
 3. Wait 5-10 minutes.
 4. Plug in heater and press the POWER button. The unit should now function normally.
- If the safety shut-off system repeatedly shuts off your heater, or if it will not reset after following the above procedure, DO NOT ATTEMPT TO DISASSEMBLE THE UNIT. Call Vornado Consumer Service Department toll free at 1-800-234-0604.

Maintenance

The TVH 600 has no user serviceable parts. Do not disassemble the unit – it will void your warranty. If service is required, return your heater to Vornado (see Limited Warranty).



- ▶ The motor is permanently lubricated and requires no oiling.
- ▶ Because the TVH 600 moves a great deal of air, it will need regular surface cleaning. Be sure to unplug the unit prior to cleaning. With a vacuum, clean the air inlet on the back of the unit and the outlet grill vanes on the front of the unit.
- ▶ During the off-season or extended periods of non-use, store your heater. Unplug the unit, bundle the cord, save the plastic bag that the heater was shipped in so that you can cover the unit and minimize settling dust.



How It Works

Vornado leads the industry in the advancement of portable electric heater technology. The TVH 600 provides the most advanced heater interface to date.



Smart Remote Temperature Sensor

This innovation incorporates continuous monitoring of the temperature at the location of the remote. This temperature reading is then transmitted back to the base unit. The TVH600 automatically adjusts heat output and fan speed to meet and maintain the desired temperature set. The benefit of this technology is when you position the Smart Remote Temperature Sensor near you, the heater will

automatically adjust to meet your desired temperature at that location. The base unit will always attempt to operate using the sensor information from the remote, if a signal cannot be obtained, the base unit will function on its own.

Fully control the TVH 600 remotely with the Smart Remote Temperature Sensor with illuminated screen. Turn the unit **ON** and **OFF**, select mode - **FAN ONLY**, **LOW HEAT** or **HIGH HEAT**, adjust the desired set temperature up or down, and set the automatic-off timer, all from up to 30 feet away. As you adjust the remote, the base unit will “beep” to indicate it has received your signal. The screen-light will dim after just a few seconds, to minimize room illumination. The Remote does not require “line-of-site” to operate.

Illuminated Touch Screen

Innovative and easy to use, the Touch Screen provides complete control of the base unit. Just touch the screen to “wake-up” or turn on the screen. Follow the intuitive display and touch the screen to adjust mode, desired temperature, and timer. The Timer can be set to turn the unit off automatically in hour intervals up to 9 hours. The screen-light will dim after just a few seconds to minimize room illumination. Both the remote and the base unit feature one-button ON/OFF control.

Automatic Climate Control

With this unique technology, the TVH 600 does not cycle on and off like most ordinary heaters, but uses continuous variable heat and air output to maintain the set temperature. This allows the unit to often run on less than high power, minimizing noise and energy use, all while maintaining your set comfort level.

How To Use

1. Plug into a standard grounded wall outlet.
2. Press the POWER button to turn on the Heater.
3. Position the TVH 600 so the vortex beam of warm air is directed across the room unobstructed.
4. Using the touch screen, select the mode you wish to use, LOW heat, HIGH heat, or FAN ONLY.
5. Turn off after use.

TVH 600 TOUCH SCREEN CONTROLS



► **POWER BUTTON** Press to turn unit ON or OFF, red light illuminates when power is ON.

► **HEAT MODE** To select the heat level you desire, press HIGH HEAT for up to 1500 watts, or LOW HEAT for up to 750 watts of maximum power.

► **FAN ONLY MODE** Select FAN ONLY mode to operate the heater with no heat.

► **SET TEMPERATURE** To select the desired room temperature, press the [+] or [-] to raise or lower the temperature by one degree at a time.

► **ROOM TEMPERATURE** The Touch Screen also indicates

room temperature. The temperature displayed is the approximate temperature at the location of the Smart Remote. The base unit will always attempt to operate using the sensor information from the Remote, if a signal cannot be obtained, the base unit will function on its own. (See Smart Remote Temperature Sensor below.)

► **TIMER** The timer function allows you to set the unit to automatically turn off in one-hour intervals up to 9 hours. Press the [+] to add hours of operation, or the [-] to remove hours of operation. The unit will completely shut off when the set time has expired.

► **SOUND** When a setting is changed you will hear a "beep" to indicate that a setting has been changed.

► **LCD DISPLAY** Display window will be illuminated when adjustments are being made, and the illumination will dim after adjustments are complete.

SMART REMOTE TEMPERATURE SENSOR

Fully control the TVH 600 with the Smart Remote. All adjustments made with the Remote will be indicated with a "beep" from the unit to notify you that the change has been received.



► **POWER** Press the ON/OFF button to turn the unit ON or OFF.

► **HEAT MODE** Press the HEAT UP or HEAT DOWN arrows to adjust heat settings one degree at a time.

► **TIMER** Press the TIMER UP or TIMER DOWN arrows to adjust timer by one hour at a time.

► **MODE** Press the center MODE button to select HIGH HEAT, LOW HEAT or FAN ONLY.

► **BATTERY REPLACEMENT** Screen will indicate when the batteries need to be replaced. The Remote requires 2 AA batteries. To replace the batteries remove the cover located on the bottom side of the remote. Note: The SMART REMOTE SENSOR sends frequent signals to the base unit; this uses more power than ordinary remotes so more frequent battery replacement will be required.

Operating Tips

The SMART REMOTE SENSOR can be turned off to save battery life or to stop the remote from sending information to the base unit. Slide switch on the back of the remote to the OFF position to turn the remote off, slide the switch to ON position to allow the remote to send signals.

The SMART REMOTE SENSOR uses RF (radio frequency) to send the signals, so line-of-sight is not required for the unit to function. However, to obtain the best remote temperature sensing, position the remote where it can sense an accurate temperature. Setting the remote too close to other heat sources, even under a warm lamp or in your lap, will cause the remote to sense the temperature as warmer than the air. Inversely, setting the remote too close to cold drafty areas, like a cold window or door, will cause the remote to sense the temperature in the room as cooler. Placing the remote in a drawer or other similar locations will not allow the unit to sense the true typical temperature. Be sure to place the remote out in the open.

*Note: Even though the remote sensor may send a signal for additional heat, the Remote Temperature Sensor cannot put the Heater into an unsafe heat mode. Performance is always limited by maximum power settings and multi-level safety shut-off systems. **The remote is not a toy and should only be used in the prescribed manner intended for the use of this heater.***

Note: If a room is very large or has too much heat loss, the heater may not be able to obtain the desired set temperature at the remote, even with the unit running continuously.

To properly carry the heater, place one hand in the back handle opening and use your other hand to hold from the front.

In smaller areas, you might prefer to set the unit in LOW HEAT mode. In larger spaces you might prefer to set the unit on HIGH HEAT mode. A vortex beam of air will gently keep the air circulating in the room for even, uniform heating.

To use the TVH 600 as a personal fan, press the "FAN ONLY" mode on the touch screen. The TVH 600, like any other 1500-watt electric heater, draws up to 12.5 amps of electric current. If using your TVH 600 on HIGH heat setting causes your home circuit breaker or fuse to trip, we offer the following suggestions:

1. Try turning off other electrical appliances that run on the same electrical circuit as your TVH 600.
2. Run the TVH 600 on LOW HEAT mode.
3. Have your electrician add an additional circuit to your home's electrical system.

ALWAYS USE COMMON SENSE WHEN USING THIS AND/OR ANY ELECTRICAL APPLIANCE

Vornado Air LLC 2-Year Limited Warranty

Vornado Air LLC warrants to the original consumer or purchaser that the Vornado® TouchStone™ 600, is free from any defects in material or workmanship for the length of term as described above. If any such defect is discovered within the warranty period, Vornado Air LLC, at its discretion, will repair or replace the unit. This limited warranty covers parts failure or manufacturing flaw. It does not apply to defects resulting from abuse of the unit, modification, alteration, repair or service by anyone other than Vornado Air LLC, mishandling, improper maintenance, commercial use of the unit, damages which occur in shipment or are attributable to acts of God.

THIS WARRANTY IS THE ONLY ONE WE GIVE ON YOUR VORNADO TOUCHSTONE 600. IT SETS FORTH ALL OUR RESPONSIBILITIES REGARDING YOUR VORNADO TOUCHSTONE 600. THERE ARE NO EXPRESS WARRANTIES EXCEPT AS LISTED ABOVE. VORNADO AIR LLC SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THE PRODUCT OR ARISING OUT OF ANY BREACH OF THE WARRANTY. ANY IMPLIED WARRANTIES INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE LIMITED TO THE DURATION OF THE EXPRESS WARRANTY.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or a limitation on how long the implied warranties last; so the above exclusions or limitations may not apply to you. This warranty gives you specific legal rights and you may have other rights that vary from state to state.

HOW TO OBTAIN RETURN AUTHORIZATION

For warranty or repair service, email consumerservice@vornado.com or call 1-800-234-0604 to obtain a Return Authorization (RA) form. Please have or include your TouchStone 600 model number and serial number, as well as your name, address, city, state, ZIP code and phone number. After receiving the RA form in the mail, ship your TouchStone 600 postage-paid with a copy of the original dated receipt of purchase along with a check or money order for \$20.00 (to cover return shipping and handling) to:

Vornado Air LLC
415 E. 13th Street
Andover, KS 67002

To ensure proper handling, packages must be clearly marked with the RA number. Packages not clearly marked with the RA number may be refused at the receiving dock.

For your records: Staple or attach your original sales receipt to this owner's guide. Please also write your TouchStone 600 serial and model numbers below (located on product specs decal).

Serial No. _____
Model No. _____

Please allow 1-2 weeks for the repair and return of your Vornado TouchStone 600 after it has been received.
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Specifications subject to change without notice.

U.S. Patent Pending.

Designed and Engineered in the USA. Manufactured in China.

PRODUCT REGISTRATION AVAILABLE ONLINE AT www.vornado.com

Vornado Consumer Services

P 1-800-234-0604 W www.vornado.com E consumerservice@vornado.com